	Application No.	Applicant(s)
Notice of Allowability	10/076,696	GERSTENBERGER ET AL.
	Examiner	Art Unit
	Laura A Manada	
	James A. Menefee	2828
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communication (IGHTS. This application is subject t	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to amendment filed 12/	<u>18/2003</u> .	
2. The allowed claim(s) is/are <u>1,3-8,10-17 and 19-23</u> .		
3. \boxtimes The drawings filed on <u>12 February 2002</u> are accepted by t	he Examiner.	
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 	e been received.	
Certified copies of the priority documents have	e been received in Application No	·
Copies of the certified copies of the priority do	ocuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
5. Acknowledgment is made of a claim for domestic priority u reference was included in the first sentence of the specifical		
(a) The translation of the foreign language provisional a	• •	
6. Acknowledgment is made of a claim for domestic priority u in the first sentence of the specification or in an Application		ince a specific reference was included
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of		
7. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
8. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No		-948) attached
(b) \square including changes required by the proposed drawing c	correction filed, which has be	en approved by the Examiner.
(c) including changes required by the attached Examiner's	s Amendment / Comment or in the C	Office action of Paper No
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T		
Attachment(s)		
1 ☐ Notice of References Cited (PTO-892)	5☐ Notice of Informal Pa	atent Application (PTO-152)
 2 Notice of Draftperson's Patent Drawing Review (PTO-948) 3 Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. 	6☐ Interview Summary ((PTO-413), Paper No
	3), 7☐ Examiner's Amendm	ent/Comment
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statemer	nt of Reasons for Allowance
	9□ Other .	Paul of PAUL IP
	SUPI TE	ERVISORY PATENT EXAMINER ECHNOLOGY CENTER 2800

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DETAILED ACTION

Response to Amendment

In response to the amendment filed 12/18/2003, claims 1, 3-5, 8, 10-12, and 15 are amended, claims 2, 9, and 18 cancelled, and claims 19-23 added. Claims 1, 3-8, 10-17, and 19-23 are pending.

Allowable Subject Matter

Claims 1, 3-8, 10-17, and 19-23 are allowed. The following is an examiner's statement of reasons for allowance:

There is not taught or disclosed in the prior art an apparatus or method as claimed for producing uv light by frequency quadrupling a laser light. Particularly, there is not taught a cesium lithium borate (CLBO) crystal that is non-critically phase matched and cooled to a temperature of between -10 and -20 degrees centigrade. There is not taught or disclosed that the CLBO crystal will produce the particular output wavelength, or that it must be cooled as claimed.

Previously, the Examiner rejected the claims by asserting that the cooling may be done at such a level by the routine experimentation of one skilled in the art. The applicant's arguments on p. 9 of the response are persuasive in rebutting this argument. Further, due tot its hygroscopic nature, the prior art only discloses CLBO crystals used at temperatures much greater than those particularly claimed herein, typically greater than 100 degrees centigrade. This factor, as well as the fact that there are other variables in determining the optimum temperature, lead the Examiner

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to agree that it would require undue experimentation for one skilled in the art to cool this

particular crystal as claimed.

Any comments considered necessary by applicant must be submitted no later than the

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payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Response to Arguments

Applicant's arguments, filed 12/18/2003, with respect to the amended claims have been

fully considered and are persuasive. The rejections have been withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James A. Menefee whose telephone number is (571) 272-1944.

The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Ip can be reached on (571) 272-1941. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

PAUL 1P

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800

January 22, 2004